ABSTRACT

The present invention offers an induction heating apparatus in which the infrared sensor performs stable temperature detection without undergoing the influence of leakage magnetic flux from the induction heating means. This induction heating apparatus has a main frame which forms an outer casing, a top plate provided on the upper side plane of the above-mentioned main frame and having at least one loading part on which a cooking container to be heated is placed, an induction heating means which is provided under the above-mentioned loading part and is to heat the above-mentioned cooking container to be heated, an infrared sensor which is provided in the neighborhood of the above-mentioned induction heating means and receives the infrared radiation radiated from the above-mentioned cooking container to be heated, and outputs the detected signal corresponding to the amount of the infrared radiation, a control board that detects the temperature of the above-mentioned cooking container to be heated based on the above-mentioned detected signal, and controls the output of the above-mentioned induction heating

means, and a magneto-shielding member having a cylindrical body covering the periphery of the above-mentioned infrared sensor and a side part covering at least a part of the above-mentioned control board and being composed thereof in a single unitary body.

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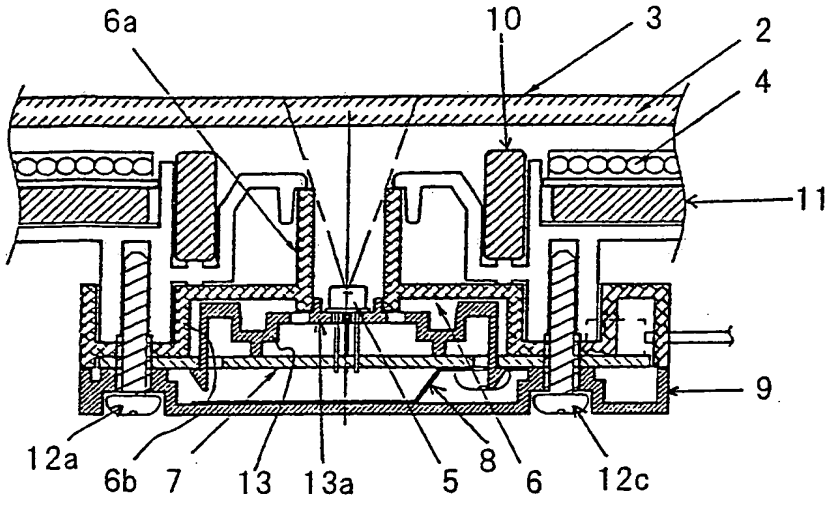
(54) Title: ~~INDUCTION HEATING DEVICE~~

(54) 発明の名称: 誘導加熱装置



(57) Abstract: An induction heating device having an infrared sensor capable of constantly detecting a temperature without being affected by a leaking magnetic flux from an induction heating means. The induction heating device comprises a body forming the outer shape of the device, a top plate provided on the top surface of the body and having at least one mounting unit for mounting a cooking container to be heated, an induction heating means provided below the mounting unit to heat the cooking container to be heated, an infrared sensor provided near the induction heating means to receive an infrared ray emitted form the cooking container to be heated and output a detection signal according to its light quantity, and a magnetization-proof member having, all integrally constituted, a control substrate for detecting the temperature of the cooking container to be heated based on the detection signal and controlling the output of the induction heating means, a cylinder enclosing the infrared sensor, and a side portion covering at least part of the control substrate.

(57) 要約: 本発明は、誘導加熱手段からの漏洩磁束の影響を受けることなく、赤外線センサが安定した温度検知を行う誘導加熱装置を提供する。本発明の誘導加熱装置は、外郭を構成する本体と、前記本体の上面に設けられ、被加熱調理容器を載置する少なくとも一つの載置部を有するトッププレートと、前記載置部の下方に設けられ、前記被加熱調理容器を加熱する誘導加熱手段と、前記誘導加熱手段の近傍に設けられ、前記被加熱調理容器から放射される赤外線を受光し、その光量に応じた検出信号を出力する赤外線センサと、前記検出信号に基づいて前記被加熱調理容器の温度を検知し、前記誘導加熱手段の出力を制御する制御基板と、前記赤外線センサの周囲を覆う筒体と、前記制御基板の少なくとも一部を覆う側部と、を有する一体で構成された防磁部材と、を有する。

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